



# VEENSTRA & KIMM, INC.

2800 Fourth Street SW, Suite 9 • Mason City, Iowa 50401-1596  
641-421-8008 • 641-380-0313(FAX) • 877-241-8008(WATS)

## PRELIMINARY CONSTRUCTION COST ESTIMATE

CLIENT: City of Ventura  
PROJECT: West Lake St. & Main St. Reconstruction Feasibility Study  
LOCATION: Ventura, IA

Job No.: 3934  
Date: 1/23/2006  
Unit Prices: 10/16/2008  
Quantities: JAP  
Checked: TAM

Complete Removal & Reconstruction w/ New 6" & 8" PCC Pavement w/ Integral C&G Entire Length - Main St. from City Limits to City Limits

### MAIN STREET

PCC = Portland Cement Concrete  
HMA = Hot Mix Asphalt  
C&G = Curb & Gutter

Roadway Length: 3,052 LF Roadway Width: 33' B-B Urban

#### ROADWAY IMPROVEMENTS

Bid Item Number	Description	Quantity	Units	Unit Cost	Total Cost	IDOT Average Unit Cost 2008
2102-2625000	Embankment - In Place	-	C.Y.	\$8.50	\$0	\$ 8.50
2102-2710070	Excavation, CL 10 Roadway and Borrow	4,970	C.Y.	\$4.50	\$22,365	\$ 3.96
2115-0100000	Modified Subbase	2,250	C.Y.	\$28.00	\$63,000	\$ 27.02
	PCC Pavement Patching - Misc. for Adjacent Roadway Areas	1	L.S.	\$45,000.00	\$45,000	N/A
2301-1033060	Standard or Slip-Form PCC Pavement, CL C, CL 3 Durability, 6"	10,450	S.Y.	\$33.00	\$344,850	\$ 33.53
2301-1033080	Standard or Slip-Form PCC Pavement, CL C, CL 3 Durability, 8"	1,280	S.Y.	\$39.00	\$49,920	\$ 34.16
2301-6911722	PCC Pavement Sample	1	L.S.	\$2,000.00	\$2,000	\$ 1,978.15
2502-8212014	Subdrain, Longitudinal, 4" Dia.	-	LF	\$4.00	\$0	\$ 3.71
2502-8220193	Subdrain Outlet (RF-19C)	-	EACH	\$190.00	\$0	\$ 182.49
2510-6745850	Removal of Pavement	11,730	S.Y.	\$6.00	\$70,380	\$ 4.21
2515-2475006	Driveway, PCC, 6"	110	S.Y.	\$38.00	\$4,180	\$ 37.52
2515-6745600	Removal of Paved Driveway	160	S.Y.	\$6.00	\$960	\$ 5.57
2520-3350010	Field Laboratory	1	EACH	\$4,000.00	\$4,000	\$ 3,930.00
2524-6765010	Remove & Reinstall Sign as Per Plan	30	EACH	\$170.00	\$5,100	\$ 168.14
2526-8285000	Construction Survey	1	EACH	\$15,000.00	\$15,000	\$ 11,890.94
2527-9263109	Painted Pavement Marking, Waterborne or Solvent Based	18	STA	\$60.00	\$1,080	\$ 9.08
2527-9263137	Painted Symbols & Legends, Waterborne or Solvent Based	5	EACH	\$120.00	\$600	\$ 59.35
2528-8445110	Traffic Control	1	L.S.	\$20,000.00	\$20,000	\$ 5,517.27
2533-4980005	Mobilization	1	L.S.	\$20,000.00	\$20,000	\$ 32,381.20
2601-2636044	Seeding & Fertilizing (Urban)	2	ACRE	\$1,050.00	\$2,100	\$ 1,041.89
Sub-Total:					\$670,535	

Total Estimated Construction Cost: \$670,500  
(Based on 2008 Unit Prices)

2010 \$725,200

#### STORM SEWER & DRAINAGE IMPROVEMENTS

Bid Item Number	Description	Quantity	Units	Unit Cost	Total Cost	IDOT Average Unit Cost 2008
2510-6750600	Removal of Intakes and Utility Accesses	7	EACH	\$ 500.00	\$3,500	\$ 516.40
2503-4460010	Intake, Type M-A	17	EACH	\$2,400.00	\$40,800	\$ 2,339.09
2503-4480500	Storm Sewer Utility Access, RA-50	2	EACH	\$2,800.00	\$5,600	\$ 2,793.18
2503-7325015	Sewer Pipe, 2000D Storm, 15"	781	LF	\$34.00	\$26,554	\$ 34.01
2503-7325018	Sewer Pipe, 2000D Storm, 18"	395	LF	\$38.00	\$15,010	\$ 37.83
2503-7325021	Sewer Pipe, 2000D Storm, 21"	90	LF	\$50.00	\$4,500	N/A
2402-0425031	Granular Backfill	400	TON	\$16.00	\$6,400	\$ 16.14
Sub-Total:					\$102,364	

Total Estimated Construction Cost: \$102,400  
(Based on 2008 Unit Prices)

2010 \$110,800

**RECREATIONAL TRAIL & SIDEWALK**

<u>Bid Item Number</u>	<u>Description</u>
2511-0301400	Recreational Trail, HMA, 4"
	Retaining Wall Modification
2511-6745900	Removal of Sidewalk
2511-7526004	Sidewalk, PCC, 4"
2601-2636044	Seeding & Fertilizing (Urban)

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
772	S.Y.	\$18.00	\$13,896
1	L.S.	\$20,000.00	\$20,000
378	S.Y.	\$6.00	\$2,268
696	S.Y.	\$45.00	\$31,320
1	ACRE	\$1,050.00	\$1,050
			<u>\$68,534</u>

IDOT Average Unit Cost 2008
\$ 17.06
N/A
\$ 6.19
\$ 25.41
\$ 1,041.89

**Total Estimated Construction Cost: \$68,500**  
(Based on 2008 Unit Prices)

2010 **\$74,100**

**SANITARY SEWER COLLECTION SYSTEM IMPROVEMENTS**

<u>Bid Item Number</u>	<u>Description</u>
2504-xxxxxxx	Adjust Sanitary Sewer Utility Access

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
5	EACH	\$500.00	\$2,500
			<u>Sub-Total: \$2,500</u>

IDOT Average Unit Cost 2008
N/A

**Total Estimated Construction Cost: \$2,500**  
(Based on 2008 Unit Prices)

2010 **\$2,700**

**WATER DISTRIBUTION SYSTEM IMPROVEMENTS**

<u>Bid Item Number</u>	<u>Description</u>
2598-3380040	Relocate Fire Hydrant
	Insulate Water Main
2402-0425031	Granular Backfill

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
1	EACH	\$1,900.00	\$1,900
1,575	LF	\$15.00	\$23,625
300	TON	\$16.00	\$4,800
			<u>Sub-Total: \$30,325</u>

IDOT Average Unit Cost 2008
\$ 1,884.42
N/A
\$ 16.14

**Total Estimated Construction Cost: \$30,300**  
(Based on 2008 Unit Prices)

2010 **\$32,800**

**STREET LIGHTING IMPROVEMENTS**

<u>Bid Item Number</u>	<u>Description</u>
2523-xxxxxxx	Lighting Poles, 16' Decorative
2523-0000200	Electrical Circuits (Conduits & Wiring)
2523-xxxxxxx	Grounding
2523-xxxxxxx	Electrical Service

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
37	EACH	\$4,000.00	\$148,000
3,440	LF	\$9.50	\$32,680
37	EACH	\$150.00	\$5,550
1	EACH	\$2,000.00	\$2,000
			<u>\$188,230</u>

IDOT Average Unit Cost 2008
N/A
\$ 9.34
N/A
N/A

**Total Estimated Street Lighting Cost: \$188,200**  
(Based on 2008 Unit Prices)

2010 **\$203,600**

**TOTAL ESTIMATED CONSTRUCTION COST (CURRENT): \$1,062,400**

2010
\$1,149,200

**10% CONTINGENCY (CURRENT): \$106,200**

\$114,900.00

**ENGINEERING, LEGAL, & ADMINISTRATIVE (CURRENT): \$175,300**

\$189,600.00

**TOTAL ESTIMATED PROJECT COST (2008): \$1,343,900**

**TOTAL ESTIMATED PROJECT COST 2010\*: \$1,453,562**

\$1,453,700.00

\* Assuming 4% inflation

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### WEST LAKE STREET

PCC = Portland Cement Concrete  
 HMA = Hot Mix Asphalt  
 C&G = Curb & Gutter

Roadway Length: 3,677 LF      Roadway Width: 33' B-B      Urban Section

#### ROADWAY IMPROVEMENTS

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2102-2710070	Excavation, CL 10 Roadway and Borrow	3,200	C.Y	\$4.50	\$14,400	\$ 3.96
2115-0100000	Modified Subbase	2,600	C.Y	\$28.00	\$72,800	\$ 27.02
	PCC Pavement Patching - Misc. for Adjacent Roadway Areas	1	L.S.	\$45,000.00	\$45,000	N/A
2301-1033060	Standard or Slip-Form PCC Pavement, CL C, CL 3 Durability, 6"	13,950	S.Y.	\$33.00	\$460,350	\$ 33.53
2301-1033080	Standard or Slip-Form PCC Pavement, CL C, CL 3 Durability, 8"	-	S.Y.	\$39.00	\$0	\$ 34.16
2301-6911722	PCC Pavement Sample	1	L.S.	\$2,000.00	\$2,000	\$ 1,978.15
2502-8212014	Subdrain, Longitudinal, 4" Dia.	-	LF	\$4.00	\$0	\$ 3.71
2502-8220193	Subdrain Outlet (RF-19C)	-	EACH	\$190.00	\$0	\$ 182.49
2510-6745850	Removal of Pavement	9,200	S.Y.	\$6.00	\$55,200	\$ 4.21
2515-2475006	Driveway, PCC, 6"	370	S.Y.	\$38.00	\$14,060	\$ 37.52
2515-6745600	Removal of Paved Driveway	530	S.Y.	\$6.00	\$3,180	\$ 5.57
2520-3350010	Field Laboratory	1	EACH	\$4,000.00	\$4,000	\$ 3,930.00
2524-6765010	Remove & Reinstall Sign as Per Plan	30	EACH	\$170.00	\$5,100	\$ 168.14
2526-8285000	Construction Survey	1	EACH	\$15,000.00	\$15,000	\$ 11,890.94
2527-9263109	Painted Pavement Marking, Waterborne or Solvent Based	23	STA	\$60.00	\$1,380	\$ 9.08
2527-9263137	Painted Symbols & Legends, Waterborne or Solvent Based	-	EACH	\$120.00	\$0	\$ 59.35
2528-8445110	Traffic Control	1	L.S.	\$20,000.00	\$20,000	\$ 5,517.27
2533-4980005	Mobilization	1	L.S.	\$20,000.00	\$20,000	\$ 32,381.20
2601-2636044	Seeding & Fertilizing (Urban)	2	ACRE	\$1,050.00	\$2,100	\$ 1,041.89
Sub-Total:					\$734,570	

Total Estimated Construction Cost: **\$734,600**  
 (Based on 2008 Unit Prices)

2011 **\$826,300**

#### STORM SEWER & DRAINAGE IMPROVEMENTS

Bid Item Number	Description	Quantity	Units	Unit Cost	Total Cost	IDOT Average Unit Cost 2008
2510-6750600	Removal of Intakes and Utility Accesses	5	EACH	\$ 500.00	\$2,500	\$ 516.40
2503-4460010	Intake, Type M-A	25	EACH	\$2,400.00	\$60,000	\$ 2,339.09
2503-4480500	Storm Sewer Utility Access, RA-50	1	EACH	\$2,800.00	\$2,800	\$ 2,793.18
2503-7325015	Sewer Pipe, 2000D Storm, 15"	1,481	LF	\$34.00	\$50,354	\$ 34.01
2503-7325018	Sewer Pipe, 2000D Storm, 18"	572	LF	\$38.00	\$21,736	\$ 37.83
2503-7325021	Sewer Pipe, 2000D Storm, 21"	345	LF	\$50.00	\$17,250	N/A
2402-0425031	Granular Backfill	500	TON	\$16.00	\$8,000	\$ 16.14
Sub-Total:					\$162,640	

Total Estimated Construction Cost: **\$162,600**  
 (Based on 2008 Unit Prices)

2011 **\$182,900**

**RECREATIONAL TRAIL & SIDEWALK**

<u>Bid Item Number</u>	<u>Description</u>
2511-6745900	Removal of Sidewalk
2511-7526004	Sidewalk, PCC, 4"
2601-2636044	Seeding & Fertilizing (Urban)

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
-	S.Y.	\$6.00	\$0
1,670	S.Y.	\$45.00	\$75,150
1	ACRE	\$1,050.00	\$1,050
			<u>\$76,200</u>

IDOT Average Unit Cost 2008
\$ 6.19
\$ 25.41
\$ 1,041.89

**Total Estimated Construction Cost: \$76,200**  
(Based on 2008 Unit Prices)

2011 **\$85,700**

**SANITARY SEWER COLLECTION SYSTEM IMPROVEMENTS**

<u>Bid Item Number</u>	<u>Description</u>
2504-xxxxxxx	Adjust Sanitary Sewer Utility Access
	Insulate Sanitary Sewer Main

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
6	EACH	\$500.00	\$3,000
400	LF	\$15.00	\$6,000
			<u>Sub-Total: \$9,000</u>

IDOT Average Unit Cost 2008
N/A
N/A

**Total Estimated Construction Cost: \$9,000**  
(Based on 2008 Unit Prices)

2011 **\$10,100**

**WATER DISTRIBUTION SYSTEM IMPROVEMENTS**

<u>Bid Item Number</u>	<u>Description</u>
2598-3380040	Relocate Fire Hydrant
	Insulate Water Main
2402-0425031	Granular Backfill

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
4	EACH	\$1,900.00	\$7,600
3,000	LF	\$15.00	\$45,000
600	TON	\$16.00	\$9,600
			<u>Sub-Total: \$62,200</u>

IDOT Average Unit Cost 2008
\$ 1,884.42
N/A
\$ 16.14

**Total Estimated Construction Cost: \$62,200**  
(Based on 2008 Unit Prices)

2011 **\$70,000**

**STREET LIGHTING IMPROVEMENTS**

<u>Bid Item Number</u>	<u>Description</u>
2523-xxxxxxx	Lighting Poles, 16' Decorative
2523-0000200	Electrical Circuits (Conduits & Wiring)
2523-xxxxxxx	Grounding
2523-xxxxxxx	Electrical Service

<u>Quantity</u>	<u>Units</u>	<u>Unit Cost</u>	<u>Total Cost</u>
31	EACH	\$4,000.00	\$124,000
3,300	LF	\$9.50	\$31,350
31	EACH	\$150.00	\$4,650
3	EACH	\$2,000.00	\$6,000
			<u>Sub-Total: \$166,000</u>

IDOT Average Unit Cost 2008
N/A
\$ 9.34
N/A
N/A

**Total Estimated Street Lighting Cost: \$166,000**  
(Based on 2008 Unit Prices)

2011 **\$186,700**

	2011
<b>TOTAL ESTIMATED CONSTRUCTION COST (2008):</b>	<b>\$1,210,600</b>
<b>10% CONTINGENCY (2008):</b>	<b>\$136,200</b>
<b>ENGINEERING, LEGAL, &amp; ADMINISTRATIVE (2008):</b>	<b>\$224,700</b>
<b>TOTAL ESTIMATED PROJECT COST (2008):</b>	<b>\$1,722,600</b>
<b>TOTAL ESTIMATED PROJECT COST 2011*:</b>	<b>\$172,300</b>

\* Assuming 4% inflation